

## BACKGROUND OF THE INVENTION

The invention relates to a low-pass filtering device for a private installation connected to an access network carrying narrow-band services (analogue or ISDN) and broad-band services (xDSL or HomePNA) and the private installations including such devices.

## 1. Field of the Invention

Private installation means a Customer Premises Network (CPN). It starts at the terminal strip of the premises (NID, Network Interface Demarcation), and comprises all the cables, copper pairs and telephone sockets. It is connected (possibly via active equipment such as a PABX) to a network for access to narrow-band services and to broad-band services. It will in practice be a telephonic and teledata installation connected to the telephone network comprising one or more narrow-band terminals such as the telephone handsets, faxes, answering machines, modems or any other type of analogue or digital equipment (ISDN) and one or more broad-band terminals based on DSL or HomePNA technology.

Hereinafter the narrow-band terminals will be referred to by the abbreviation NBT and broad-band  
30 terminals by the abbreviation BBT.

Broad-band service means any service transmitted in a spectral band situated above narrow-band services

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